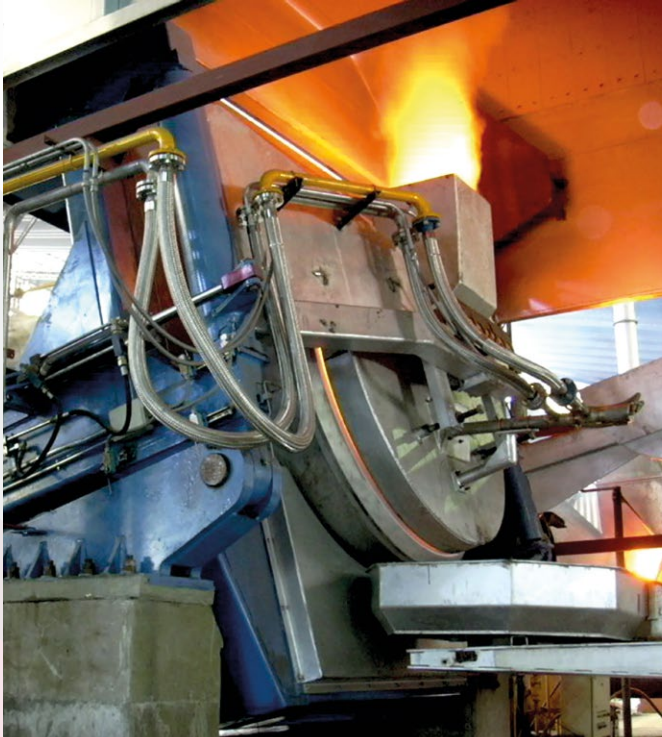


Rotary FARB

Aluminium Recycling

www.insertec.biz



\ Tilting rotary furnace

Insertec manufactures the tilting rotary furnaces model FARB, with an oxy-fuel combustion system, and with state of the art technology for the competitive Aluminium Recycling Industry.

Today, it is considered as the most advanced and competitive type of furnace, due to their short cycle times, small amount of salts required and high yield in metal recovery.

Their main features are:

- . Increase in the productivity
- . Lower operation costs
- . Increase in metal yield
- . Reduction of emissions
- . Reduction of final disposal to land-fill or secondary recyclers.



\ Tilting rotary furnace

This kind of furnace can increase productivity as a result of shorter melting cycles by increasing the melting rate.

Compared with usual fixed axis rotary furnaces, also reduce the amount of salts and fluxes required for the process, and therefore the amount of final disposal salt cake.

Better thermal efficiency, using oxygen with low amount of emissions and content in NO_x, and dry salt cake process.

Shorter cycle times improve the chemical analysis.

These features, combined with the tilt type design of the furnace, allow the FARB melt faster and efficiently, with tap-to-tap cycle times between 2 and 3 hours, with a thermal efficiency among 75-80%, and productivity time over 98%.

WHERE ENGINEERING BECOMES HEAT

insertec
Furnaces & Refractories

Tilting Rotary FARB

Aluminium Recycling

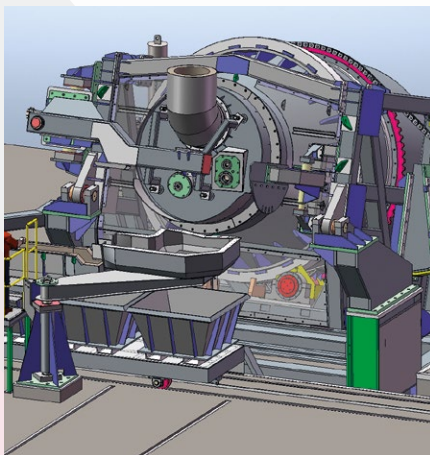
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The FARB furnace is a universal solution for processing all kind of materials, such as:

- . Dirty scraps, with dust, paint, plastics Foundry returns.
- . Automotive parts with ferrous inserts Aluminium cans, UBC.
- . Chips, turnings.
- . White and black drosses.
- . Models from 2ton to 4 ton capacity

Some features of its design are:

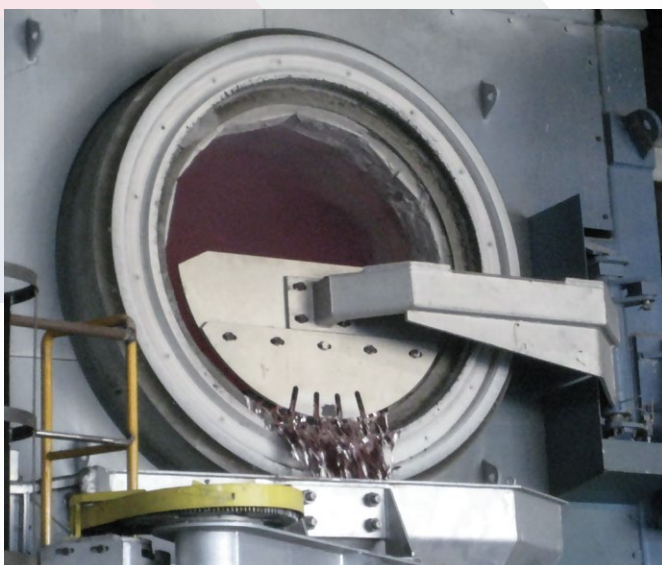
- . Tap-to-tap cycle times, from 2.5 to 3 hrs.
- . Ratio of salts required, 0.4 to 0.5 of NMP.
- . Energy consumption, 400 kWh/MT.
- . Rotary speed, up to 6-8 rpm.
- . Robust steel structure, with a proven drum Long life refractory lining.
- . Oversized driving system and bearings Hydraulically Rotation and Tilting systems Supervision and control from PLC.



"TECHNICAL SPECIFICATIONSTILTING ROTARY FURNACES, model FARB"

Model	FARB-2	FARB-4	FARB-8	FARB-12	FARB-16	FARB-24	FARB-40
Capacity	2 Mton 1 m ³	4 Mton 2 m ³	8 Mton 4 m ³	12 Mton 6 m ³	16 Mton 8 m ³	24 Mton 12,5 m ³	40 Mton 20 m ³
Daily Production (Mton)							
Dross Input / Output	10 / 6	20 / 12	40 / 24	60 / 36	80 / 48	120 / 72	200 / 120
Scraps Input / Output	12 / 11	23 / 21	45 / 42	70 / 67	90 / 85	135 / 125	230 / 210

Data considering Dross 60% Al and Scrap 90% Al recovery; with salt factor 0,5 and 6 cycles/day



\ FARB with door opened, drain off molten metal with dross rake and saltcake into bins of Salt car



\ FARB with charging machine

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